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SEQUENCE LISTING

<110> Abbott Laboratories  
 Billing-Medel, Patricia A.  
 Cohen, Maurice  
 Colpitts, Tracey L.  
 Friedman, Paula N.  
 Gordon, Julian  
 Granados, Edward N.  
 Hodges, Steven C.  
 Klass, Michael R.  
 Kratochvil, Jon D.  
 Roberts-Rapp, Lisa  
 Russell, John C.  
 Stroupe, Stephen D.

<120> Reagents And Method Useful For Detecting  
 Diseases Of The Breast

<130> 5995.US.P2

<140> 09/516,444  
 <141> 2000-02-29

<150> US 08/962,094  
 <151> 1997-10-31

<150> US 08/742,067  
 <151> 1996-10-31

<160> 39

<170> FastSEQ for Windows Version 4.0

<210> 1  
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 <222> (26)...(26)  
 <223> n = a or g or c or t/u, unknown or other at  
 position 26

<221> misc\_feature  
 <222> (98)...(98)  
 <223> n = a or g or c or t/u, unknown or other at  
 position 98

<221> misc\_feature  
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position 133

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<222> (145)...(145)
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      position 145

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<222> (183)...(183)
<223> n = a or g or c or t/u, unknown or other at
      position 183

<400> 1
ctcttaggct ttgaaggcatt tttgtntgtg ctccctgatc ttcatgtcac caccatgaag 60
ttcttagcag tcctggact cttgggagtt tccatctntc tggtctctgc ccagaatccg 120
acaacagctg ctncagctga cacgnatcca gctactggtc ctgctgatga tgaagcccct 180
gangctgaaa ccactgctgc t                                201

<210> 2
<211> 308
<212> DNA
<213> Homo sapiens

<400> 2
taggctttga agcatttttgc tctgtgtcc ctgatcttca ggtcaccaccat atgaagttct 60
tagcagtccctt ggtactcttg ggagtttcca tctttctgggt ctctgcccag aatccgacaa 120
cagctgctcc agctgacacg tatccagcta ctggtccctgc tgatgatgaa gcccctgatg 180
ctgaaaccac tgctgctgca accactgcga ccactgctgc tcctaccact gcaaccaccc 240
ctgcttctac cactgctcgta aaagacattc cagttttacc caaatgggtt gggatcttc 300
cgaatgggtt                                308

<210> 3
<211> 292
<212> DNA
<213> Artificial Sequence

<220>
<223> EST Clone 901429

<221> misc_feature
<222> (236)...(236)
<223> n = a or g or c or t/u, unknown or other at
      position 236

<221> misc_feature
<222> (259)...(259)
<223> n = a or g or c or t/u, unknown or other at
      position 259

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gcatttttgt ctgtgctccc tggatcttcat gtcaccacca tgaagttctt agcagtcctg 60
gtactcttgg gagtttccat ctttctggc tctgcccaga atccgacaaac agctgctcca 120
gctgacacgt atccagctac tggtcctgt gatgatgaa gcccctgatgc tgaaaccact 180
gctgctgcaa ccactgacac cactgctgt cctaccactg caaccaccgc tgcttntacc 240
actgctcgta aagacattnc agttttaccc aaatgggtt gggatctccc ga      292

<210> 4

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<211> 197
<212> DNA
<213> Homo sapiens

<400> 4
gttttaccca aatgggttgg ggatctcccg aatggtagag tgtgtccctg agatggaatc 60
agcttgagtc ttctgcattt ggtcacaact attcatgctt cctgtgattt catccaacta 120
cttaccttgc ctacgataatc ccctttatct ctaatcagtt tattttcttt caaataaaaa 180
ataactatga gcaacat 197

<210> 5
<211> 472
<212> DNA
<213> Homo sapiens

<400> 5
ctcttaggct ttgaaggcatt tttgtctgtg ctccctgatc ttcatgtcac caccatgaag 60
ttcttagcag tcctggact cttggagtt tccatcttc tggctctgc ccagaatccg 120
acaacagctg ctccagctga cacgtatcca gctactggtc ctgctgatga tgaagcccc 180
gatgctgaaa ccactgctgc tgcaaccact gcgaccactg ctgctcctac cactgcaacc 240
accgctgctt ctaccactgc tcgtaaagac attccagttt tacccaaatg gttggggat 300
ctccccgaatg gttaggtgtg tccctgagat ggaatcagct tgagtcttct gcaattggc 360
acaactattc atgcttcctg tgatttcatc caactactta ccttgctac gatatcccc 420
ttatctctaa tcagtttattt ttcttcaaaa taaaaataaa ctatgagcaa ca 472

<210> 6
<211> 473
<212> DNA
<213> Homo sapiens

<400> 6
ctcttaggct ttgaaggcatt tttgtctgtg ctccctgatc ttcatgtcac caccatgaag 60
ttcttagcag tcctggact cttggagtt tccatcttc tggctctgc ccagaatccg 120
acaacagctg ctccagctga cacgtatcca gctactggtc ctgctgatga tgaagcccc 180
gatgctgaaa ccactgctgc tgcaaccact gcgaccactg ctgctcctac cactgcaacc 240
accgctgctt ctaccactgc tcgtaaagac attccagttt tacccaaatg gttggggat 300
ctccccgaatg gttaggtgtg tccctgagat ggaatcagct tgagtcttct gcaattggc 360
acaactattc atgcttcctg tgatttcatc caactactta ccttgctac gatatcccc 420
ttatctctaa tcagtttattt ttcttcaaaa taaaaataaa ctatgagcaa cat 473

<210> 7
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> Restriction site

<400> 7
agctcgaaat tccgagcttg gatcctctag agcggccgcc gactagttag ctcgtcgacc 60
cgggaaattt 68

<210> 8
<211> 68
<212> DNA
<213> Artificial Sequence

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<220>
<223> Restriction site

<400> 8
aattaattcc cgggtcgacg agctcaactag tcggcggccg ctctagagga tccaagctcg 60
gaattccg 68

<210> 9
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Universal Primer

<400> 9
agcggataac aatttcacac agga 24

<210> 10
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Universal Primer

<400> 10
tgtaaaacga cggccagt 18

<210> 11
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 11
actgctcgta aagacattcc 20

<210> 12
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 12
gggacacact ctaccatc 19

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

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<223> Sense Primer

<400> 13

aagccccctga tgctgaaacc

20

<210> 14

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Primer

<400> 14

tgcagaagac tcaagctgat tcc

23

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Target-Specific Forward Primer

<400> 15

aagccccctga tgctgaaacc

20

<210> 16

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Target-Specific Reverse Primer

<400> 16

tgcagaagac tcaagctgat tcc

23

<210> 17

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 17

gaccactgct gctcc

15

<210> 18

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Sense Primer

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<400> 18
actgctcgta aagacattcc                                20

<210> 19
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Primer

<400> 19
gggacacact ctaccatc                                19

<210> 20
<211> 90
<212> PRT
<213> Homo sapiens

<400> 20
Met Lys Phe Leu Ala Val Leu Val Leu Leu Gly Val Ser Ile Phe Leu
   1           5          10          15
Val Ser Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro
   20          25          30
Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala
   35          40          45
Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala
   50          55          60
Ala Ser Thr Thr Ala Arg Lys Asp Ile Pro Val Leu Pro Lys Trp Val
   65          70          75          80
Gly Asp Leu Pro Asn Gly Arg Val Cys Pro
   85          90

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<210> 21
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 21
Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro Ala Thr
   1           5          10          15
Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala Ala Ala
   20          25          30
Thr Thr Ala Thr Thr Ala Ala
   35

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<210> 22
<211> 39
<212> PRT
<213> Artificial Sequence

<220>

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<223> Synthetic Peptide

<400> 22  
Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala Ala Ser  
1 5 10 15  
Thr Thr Ala Arg Lys Asp Ile Pro Val Leu Pro Lys Trp Val Gly Asp  
20 25 30  
Leu Pro Asn Gly Arg Val Cys  
35

<210> 23

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 23  
Ala Arg Lys Asp Ile Pro Val Leu Pro Lys Trp Val Gly Asp Leu Pro  
1 5 10 15  
Asn Gly Arg Val Cys  
20

<210> 24

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 24

Ala Ala Pro Ala Asp Thr Tyr Pro Ala Thr Gly Pro Ala Asp Asp Glu  
1 5 10 15  
Ala Pro Asp Ala Glu  
20

<210> 25

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 25

Ala Gln Asn Pro Thr Thr Ala Ala Cys  
1 5

<210> 26

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 26

Cys Ala Arg Lys Asp Ile Pro Val Leu Pro Lys Trp Val Gly Asp Leu  
1 5 10 15  
Pro Asn Gly Arg Val Cys Pro  
20

<210> 27

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 27

Gly Gly Trp Val Gly Asp Leu Pro Asn Gly Arg Val Cys Pro  
1 5 10

<210> 28

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 28

Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Cys  
1 5 10

<210> 29

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 29

Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro Ala Thr  
1 5 10 15

Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala Ala Ala  
20 25 30

Thr Thr Ala Thr Thr Ala Ala Cys  
35 40

<210> 30

<211> 11

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 30  
Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Cys  
1 5 10

<210> 31  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 31  
Asn Pro Thr Thr Ala Ala Pro Ala Asp Cys  
1 5 10

<210> 32  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 32  
Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Cys  
1 5 10

<210> 33  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 33  
Ala Arg Lys Asp Ile Pro Val Leu Pro Lys Trp Val Gly Asp Leu Pro  
1 5 10 15  
Asn Gly Arg Val Cys Pro  
20

<210> 34  
<211> 24  
<212> PRT  
<213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Affinity Purification System Recognition Site

&lt;400&gt; 34

Ala	Ser	Pro	Thr	Tyr	Arg	Leu	Tyr	Ser	Ala	Ser	Pro	Ala	Ser	Pro	Ala
1				5				10							15
Ser	Pro	Ala	Ser	Pro	Leu	Tyr	Ser								
					20										

&lt;210&gt; 35

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Affinity Purification System Recognition Site

&lt;400&gt; 35

Gly	Leu	Gly	Leu	Asn	Leu	Tyr	Ser	Leu	Glu	Ile	Leu	Glu	Ser	Glu	Arg
1					5				10						15
Gly	Leu	Gly	Leu	Ala	Ser	Pro	Leu	Glu	Ala	Ser	Asn	Met	Glu	Thr	His
					20				25						30
Ile	Ser	Thr	His	Arg	Gly	Leu	His	Ile	Ser	His	Ile	Ser	His	Ile	Ser
					35				40						45
His	Ile	Ser	His	Ile	Ser	His	Ile	Ser							
					50				55						

&lt;210&gt; 36

&lt;211&gt; 36

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; BamH I site

&lt;400&gt; 36

tccatctttc tggtcggatc ccagaatccg acaaca

36

&lt;210&gt; 37

&lt;211&gt; 35

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Pme I site

&lt;400&gt; 37

gagcgccgc atcggttaaa ctgacgatct gcctc

35

&lt;210&gt; 38

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> XbaI site plus 12 nucleotide sequences that encode  
the four amino acid sequences

<400> 38  
Ser Asn Glu Leu  
1

<210> 39  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Antisense primer incorporates a sequence encoding  
the eight amino acids just before the stop codons

<400> 39  
Asp Tyr Lys Asp Asp Asp Asp Lys  
1 5